

CentOS Server - Server Applications

Server Applications Installations For CentOS Web Server

- Application Install Checklist
 - Server Applications Checklist
- Applications
 - Install MySQL
 - Install Postfix
 - Install PHP
 - Install Apache
 - Install Let's Encrypt

Application Install Checklist

Server Applications Checklist

Applications Checklist

	√	To Do
1		Install MySQL
2		Install Postfix
3		Install PHP
4		Install Apache
5		Install Let's Encrypt

Applications

Install MySQL

Installing MySQL on Centos

Uninstall MariaDB

1. Uninstall MariaDB from the server

```
yum remove MariaDB-server MariaDB-client
```

Add the MySQL repository

1. Download and add the following MySQL Yum repository

```
Downloading repository data
=====

wget https://repo.mysql.com/mysql80-community-release-el7-1.noarch.rpm

Installing the repository data
=====

yum localinstall mysql80-community-release-el7-1.noarch.rpm
```

Verify if the MySQL Yum repository has been added successfully

1. with the command below very that the MySQL Yum repository has been added successfully

```
yum repolist enabled | grep "mysql.*-community.*"
```

The result should be similar to

```
root@aza2-jhb-azandi /home/aza_admin # yum repolist enabled | grep "mysql.*-community.*"
mysql-connectors-community/x86_64 MySQL Connectors Community 141
mysql-tools-community/x86_64 MySQL Tools Community 105
mysql80-community/x86_64 MySQL 8.0 Community Server 161
mysql80-community-source MySQL 8.0 Community Server - Source 0
root@aza2-jhb-azandi /home/aza_admin #
```

Installing MySQL Release Series

If a specific release series is required follow the following steps

1. If not already installed, install yum-config-manager

```
|yum update && yum install yum-utils|
```

2. Disable the current active sub-repository, where [xx] replaces the version number

```
|yum-config-manager --disable mysql[xx]-community|
```

3. Enable the appropriate sub-repository, where [xx] replaces the version number

```
|yum-config-manager --enable mysql[xx]-community|
```

Install MySQL

1. Install MySQL with the command below

```
|yum install mysql-community-server|
```

Start and enable MySQL

1. Start and enable MySQL with the commands below

Start MySQL

=====

```
systemctl start mysqld
```

Enable Mysql

=====

```
systemctl enable mysqld
```

Secure MySQL installation

1. Lastly, secure the installation of MySQL by running the command below and following the prompts

Install Postfix

Installing Postfix

Uninstall SendMail

1. Run the command below to ensure that SendMail is removed/not installed

```
yum remove sendmail
```

Install Postfix

1. Install Postfix with the below command

```
yum install postfix
```

2. Make postfix as default MTA for your system using the following command

```
alternatives --set mta /usr/sbin/postfix
```

Use the command below, if the above command does not work

```
alternatives --set mta /usr/sbin/sendmail.postfix
```

Start and Enable Postfix

1. With the below commands, start and enable Postfix

Start Postfix

=====

```
service postfix start
```

Enable Postfix

=====

```
chkconfig postfix on
```

Open Firewall Port

1. Open the firewall with the below commands to allow Postfix to communicate

```
iptables -A INPUT -m state --state NEW -m tcp -p tcp --dport 25 -j ACCEPT
```

```
iptables -A INPUT -m state --state NEW -m udp -p udp --dport 25 -j ACCEPT
```

Install PHP

Installing PHP

Installing Repositories

1. If not already installed, install the EPEL repository with the command below

```
yum install epel-release
```

2. Install the Remi repository to get the latest versions of PHP with the command below

```
yum install http://rpms.remirepo.net/enterprise/remi-release-7.rpm
```

3. If not already installed, install yum-utils

```
If not already installed, install
```

4. Use yum-config-manager (a utility provided by yum-utils), to Remi repository as the default repository for installing PHP, [xx] represents the version of PHP

```
yum-config-manager --enable remi-php[xx]
```

Installing PHP

1. Install PHP with the command below with the default set of "add-ons" used by most PHP applications

```
yum install php php-mcrypt php-cli php-gd php-curl php-mysql php-ldap php-zip php-fileinfo
```

Install Apache

Installing Apache Web Server

1. Run the commands below to install Apache web server

```
Installing Apache Web server
=====

yum install httpd

Install SSL module for Apache Web server
=====

yum install mod_ssl
```

Disable HTTP_PROXY

1. To prevent an attack through the HTTP_PROXY vulnerability, disable HTTP_PROXY header in apache globally

```
echo "RequestHeader unset Proxy early" >> /etc/httpd/conf/httpd.conf
```

Start And Enable Apache Web Server

1. To start and enable Apache Web Server use the commands below

```
Start Apache Web Server
=====

service httpd start

Enable Apache Web Server
=====

chkconfig httpd on
```


Install Let's Encrypt

Installing Let's Encrypt on the web server

1. Ensure that the CentOS EPEL repository is installed

```
yum install epel-release
```

2. Install Let's Encrypt with the command below

```
yum install certbot python2-certbot-apache mod_ssl
```

To allow the installation to finish, accept the GPG key by typing `y` and pressing `ENTER` when prompted to do so